Figure III.18: The situation for Lemma III.4. The edges $AC$ and $AD$ form a symmetric groove, with $AC$ and $AD$ being of equal length. The vector $\mathbf{n}$ points upward, the vector $\mathbf{v}$ is in the direction from $B$ to $D$. The vectors $\mathbf{h}$ and $\mathbf{h}'$ are normal to the sides of the groove. All four vectors are unit vectors. The ratio of $\|BC\|$ to $\|AC\|$ measures the fraction of the groove that is not masked.