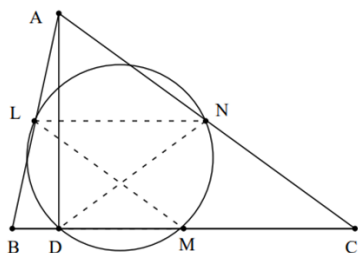


**Example 174 :** As shown in Figure 3, in  $\triangle ABC$ ,  $AD$  is high, and  $M$ ,  $N$ ,  $L$  are the midpoints of  $BC$ ,  $CA$ ,  $AB$  respectively . Prove that  $D$ ,  $M$ ,  $N$ ,  $L$  share a circle.



$$\frac{N-D}{N-L} \frac{M-L}{M-D} = \frac{B-C}{N-L} \frac{M-L}{C-A} \left( \frac{N-D}{B-C} \frac{C-A}{M-D} \right),$$